

TRANSFORMER DATA SHEET

DATE : 07/03/2017
 CUSTOMER : HVES
 CIRCUIT/LOCATION : HVES #79
 MANUFACTURER : Westinghouse/Sunbelt Transformer Inc.
 TRANSFORMER TYPE : Pad Mount CLASS : Pad/OA
 S/N : ST129958735

THREE PHASE SINGLE PHASE : 60 HERTZ

VOLTAGE RATING: 13200 Delta-480Y/277

KVA RATING: 300 Continuous, Self Cooled
 Continuous, Forced Air

LV WINDING: ALUMINUM
 HV WINDING: ALUMINUM
 LV: 65°C rise, BIL: 30 kV
 HV: 65°C rise, BIL: 95 kV

NAMEPLATE DATA

Core & Coils	
Case & Fittings	
Oil in Gallons	170
Weight in Pounds	4200

Impedance volts : 1.5 % at rated volts at : 300 KVA

MEGGER TEST RESULTS

TRANSFORMER TEST DATA

	1 Minute				<u>POLARIZATION INDEX</u>	<u>CAPACITANCE</u>	
High-> Ground	29k	M-Ohms, @	5	kV DC	2.11	0.02	micro-farad
Low -> Ground	18k	M-Ohms, @	1	kV DC	2.07	0.02	micro-farad
High-> Low	15k	M-Ohms, @	1	kV DC	2.19	0.02	micro-farad

TRANSFORMER TTR TESTS

TAP (V)	CALC. TTR	PHASE 1	PHASE 2	PHASE 3
13860				
13530				
13200				
12870				
12540				

COMMENTS

Live front radial feed.

TRANSFORMER OIL DATA SHEET
Standard Oil Analysis

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S/N : ST129958735

<u>TEST</u>	<u>ASTM</u>	<u>LIMITS*</u>	<u>RESULTS</u>
WATER CONTENT	D1533	20 Max	: 31 ppm
INTER-FACIAL TENSION	D971	32 Min	: 30.6 Dynes/ppm
NEUTRALITY	D974	0.10 Max	: 0.028 mg KOH/g
COLOR	D1500	3.5 Max	: 1.5
VISUAL EXAMINATION	D1524	N/A	: Clear & bright
DIELECTRIC	D877	26 Min	: 52 kV
SPECIFIC GRAVITY	D1298	0.91 Max	: 0.875

*NETA Table 100.4.1 and ANSI/IEEE C57.106-2002 "Guide for Acceptance and Maintenance of Insulating Oil in Equipment," Table 7.

COMMENTS :

TRANSFORMER OIL DATA SHEET
Dissolved Gas-in-Oil Analysis As Per ASTM D-3612A

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<u>TEST</u>	<u>IN-SERVICE NORMS*</u>	<u>RESULTS</u>
HYDROGEN (H2)	240 ppm	: 0 ppm
METHANE (CH4)	160 ppm	: 0 ppm
ETHANE (C2H6)	115 ppm	: 1 ppm
ETHYLENE (C2H4)	190 ppm	: 20 ppm
ACETYLENE (C2H2)	11 ppm	: 0 ppm
CARBON MONOXIDE (CO)	580 ppm	: 244 ppm
CARBON DIOXIDE (CO2)	n/a	: 3383 ppm
NITROGEN (N2)	n/a	: 78031 ppm
OXYGEN (O2)	n/a	: 30888 ppm
TOTAL GAS	n/a	: 112567 ppm
TOTAL COMBUSTIBLES	n/a	: 265 ppm
ESTIMATED TCG	n/a	: 0.19 %
CO2/CO RATIO		: 13.87

ANALYSIS:

All gases are within accepted limits.

RECOMMENDATION:

Resample in 1 year.

*In-service Norms as follows:

	<u>GENERATING</u>	<u>TRANSMISSION</u>
HYDROGEN (H2)	240 ppm	100 ppm
METHANE (CH4)	160 ppm	120 ppm
ETHANE (C2H6)	115 ppm	65 ppm
ETHYLENE (C2H4)	190 ppm	30 ppm
ACETYLENE (C2H2)	11 ppm	35 ppm
CARBON MONOXIDE (CO)	580 ppm	350 ppm

COMMENTS:

MFG **WESTINGHOUSE**
 HIGH VOLTAGE **13200 DELTA**
 LOW VOLTAGE **480Y/277**
 TYPE **PAD/OA** HZ **60**
 RISE **65** °C %IMP **1.50**

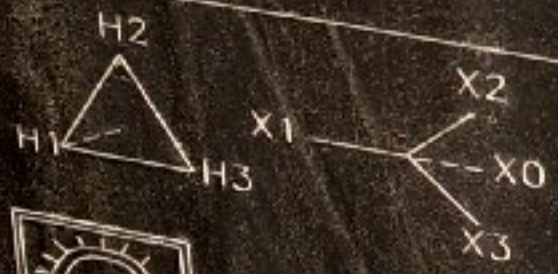
S/N **ST129958735**
 KVA **300**
 LV AMPS **361**
 HV BIL **95 KV**
 LV BIL **30 KV**

HIGH VOLTAGE	TAP CHANGER		
	CONNECT	POS	AMPS
13860	T0	A	12.5
13530	T0	B	12.8
13200	T0	C	13.1
12870	T0	D	13.5
12540	T0	E	13.8

APPROX. WEIGHT IN POUNDS
 UNTANKING
 TANK & FITTING
 LIQUID
 GAL **170**
 TOTAL WEIGHT
 MIN OIL
1250
4200



PLAN VIEW



SUNBELT TRANSFORMER INC.
 TEMPLE, TX SHARON, PA
 3 Ø TRANSFORMER
 1-800-433-3128

SB-2



UNIT 79

UNIT 64

WARNING
HIGH VOLTAGE
DANGER